Abstract

Laser diode bar provided with a parallel connected diode for bridging said laser diode bar in case of failure

What is specified is a laser diode component comprising a laser diode bar on which a specific operating voltage is impressed during operation and with which a bridging element is connected in parallel, which bridging element is in a current-blocking state when the specific operating voltage is impressed on the associated laser diode bar and which bridging element changes over to a current-conducting state as soon as the voltage drop across the laser diode bar exceeds the operating voltage by a predefined voltage value. A circuit arrangement comprising a plurality of such laser diode components which are connected in series is furthermore specified.

Figure 1